

Swift 64

ISDN and packet-data



Swift 64 provides ISDN, Mobile Packet Data Service (MPDS) and a high quality voice service.

Swift 64 is a circuit-switched, mobile ISDN service providing the same high quality and guaranteed speed as terrestrial ISDN. Higher bandwidth can be achieved by bonding up to four 64kbps channels together.

Swift 64 also offers a Mobile Packet Data Service (MPDS), which provides the economy and flexibility of 'always-on' packet data connections.

In addition, it provides a high quality voice service with the same functionality as land-based fixed phone services.

The end-user experience depends on the native performance of Swift 64, as well as any performance-enhancing technologies that are being used eg. data compression, IP and application optimisation.

Features

The Swift 64 service has the following features:

- Dedicated circuit-mode (mobile ISDN), packet-mode (MPDS) connections or high quality voice channels
- One, two or four-channel avionics
- 64kbps data throughput per ISDN channel
- Optional bonding of channels to yield up to 256kbps – can be increased further through data compression
- Three data formats: ISDN, Unrestricted Digital Information (UDI) and packet-data (TCP/IP)
- Standalone or simultaneous operation with Inmarsat Aero H/H+ through the same high-gain antenna
- Support for high-assurance applications, including NATO secret and NSA Type-1 encryption systems providing remote mobile access to classified networks – STU-III/IIb, STE, KIV-7, Brent and HAIPE devices including KG-175 TACLANE, KG-235 Sectéra, KG-250 Altasec

Requirements

The following is required to operate Swift 64:

- Swift 64 avionics – the satellite modem to access the service
- A high-gain aircraft antenna capable of receiving Swift 64 and related equipment eg. Diplexer, LNA, HPA and cabling
- An agreement with a service provider

Aircraft without an Inmarsat system

For new aircraft, airframe manufacturers can advise if Swift 64 avionics are an option either as SFE or BFE. For aircraft already in use, Swift

64 avionics manufacturers can recommend equipment and advise on STC status.

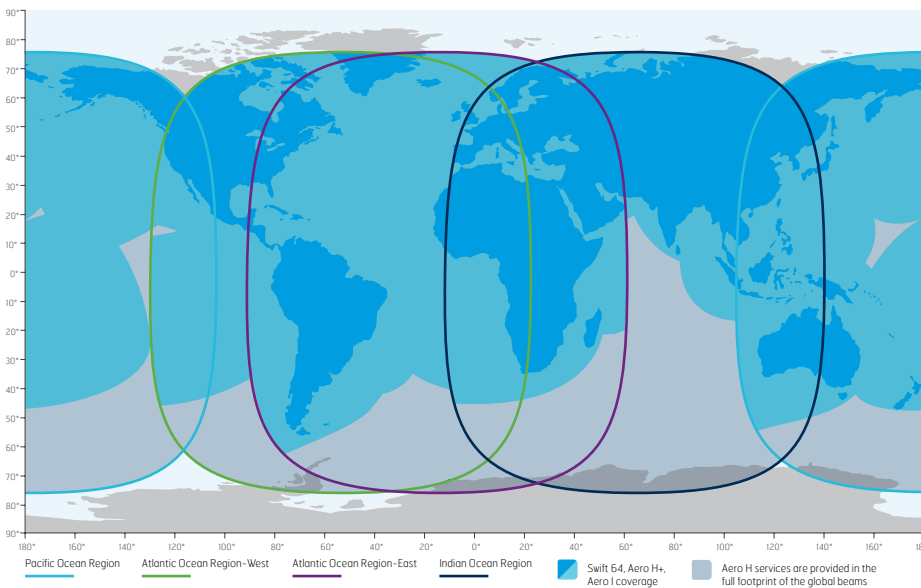
Upgrading an existing Inmarsat installation

Users of Inmarsat classic services, such as Aero H/H+, can add Swift 64 to their installation depending on the equipment already installed on the aircraft.

Consultation with the relevant avionics and antenna manufacturers is necessary to establish the appropriate upgrade path for each particular aircraft configuration.

Coverage

Swift 64 uses the spot beams of the Inmarsat-3 (I-3) satellites.



The map depicts Inmarsat's expectations of coverage, but does not represent a guarantee of service. The availability of service at the edge of coverage areas fluctuates depending on various conditions.

How to buy

Avionics/antennas

Swift 64 avionics are offered by Chelton Satcom (avionics and antennas), Esterline/CMC (antennas), EMS Technologies (avionics and antennas), Honeywell (avionics), Rockwell Collins (avionics), Ball Aerospace (antennas), Thales (avionics) and Thrane & Thrane (avionics).

Service provision

Aircraft operators must contract with an Inmarsat service provider. The service provider invoices for the service, either on a data volume or time basis, depending on the service used. Visit our website for contact details.

Applications

Swift 64 supports a wide range of crew and passenger applications:

Crew

- Voice communications
- Electronic Flight Bag (EFB) – flight plan, weather and chart updates
- Aircraft systems and engine performance monitoring
- Maintenance and BITE reporting
- Operational and administrative reporting

Passengers

- Telephony: in-seat, cellular, VoIP
- Text messaging
- Corporate email and webmail
- Internet/intranet – live and managed access
- Instant messaging
- Secure VPN access
- Large file transfer – presentations, graphics, video
- Videoconferencing
- News and entertainment/IFE content updates
- Buy onboard



inmarsat.com/swift64

Whilst the above information has been prepared by Inmarsat in good faith, and all reasonable efforts have been made to ensure its accuracy, Inmarsat makes no warranty or representation as to the accuracy, completeness or fitness for purpose or use of the information. Inmarsat shall not be liable for any loss or damage of any kind, including indirect or consequential loss, arising from use of the information and all warranties and conditions, whether express or implied by statute, common law or otherwise, are hereby excluded to the extent permitted by English law. INMARSAT is a trademark of the International Mobile Satellite Organisation, the Inmarsat LOGO is a trademark of Inmarsat (IP) Company Limited. Both trademarks are licensed to Inmarsat Global Limited. © Inmarsat Global Limited 2012. All rights reserved. Swift 64 January 2013.